

Project Title	Funding	Strategic Plan Objective	Institution
Using fMRI to understand the Neural Mechanisms of Pivotal Response Treatment	\$29,500	Q2.L.B	University of California, Santa Barbara
Undergraduate Research Award	\$3,000	Q2.L.B	SAN DIEGO STATE UNIVERSITY
Undergraduate Research Award	\$3,000	Q2.S.B	University of Washington
The role of UBE3A in autism: Is there a critical window for social development?	\$108,900	Q2.S.D	Erasmus University Medical Center
The Role of Shank3 in Neocortex Versus Striatum and the Pathophysiology of Autism	\$0	Q2.S.G	Duke University
The role of Shank3 in neocortex versus striatum and the pathophysiology of autism	\$25,000	Q2.S.D	Duke University
The Neural Bases of Top-Down Attentional Control in Autism Spectrum Disorders	\$14,160	Q2.Other	CITY COLLEGE OF NEW YORK
The Cognitive Neuroscience of Autism Spectrum Disorders	\$1,032,186	Q2.Other	National Institutes of Health
Thalamocortical connectivity in children and adolescents with ASD-A combined fcMRI and DTI approach	\$0	Q2.Other	SAN DIEGO STATE UNIVERSITY
Synchronous activity in networks of electrically coupled cortical interneurons	\$0	Q2.Other	University of California, Davis
Structural Polarity Influences Terminal Placement and Competition in Formation of the Calyx of Held	\$32,270	Q2.Other	WEST VIRGINIA UNIVERSITY
Structural and Functional Connectivity of Large-Scale Brain Networks in Autism	\$112,748	Q2.Other	University of Miami
Stimulus preceding negativity and social stimuli in autism spectrum disorder	\$0	Q2.Other	University of California, San Diego
Social reward in autism: Electrophysiological, behavioral, and clinical correlates	\$54,400	Q2.Other	SEATTLE CHILDREN'S HOSPITAL
Social Motivations and Striatal Circuit Development in Children and Adolescents with Autism	\$35,000	Q2.L.B	Stanford University
Social interaction and reward in autism: Possible role for ventral tegmental area	\$62,440	Q2.Other	University of Geneva
Social Brain Networks for the Detection of Agents and Intentions	\$416,250	Q2.Other	Yale University
Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	\$0	Q2.S.D	Massachusetts Institute of Technology
Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2	\$30,000	Q2.Other	University of California, San Francisco
Rapid screening for cortical circuit dysfunction in autism-related mouse models	\$59,835	Q2.S.D	University of California, Berkeley
Probing the temporal dynamics of aberrant neural communication and its relation to social processing deficits in autism spectrum disorders	\$29,987	Q2.Other	University of Pittsburgh
Probing the neural basis of social behavior in mice	\$62,500	Q2.S.D	Massachusetts Institute of Technology
Ontogeny and neural basis of social visual engagement in monkeys	\$312,009	Q2.Other	Emory University

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Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder	\$309,761	Q2.Other	Duke University
Neurobehavioral Investigation of Tactile Features in Autism Spectrum Disorders	\$162,562	Q2.Other	Vanderbilt University
Neuregulin 1 (NRG1) in autistic children	\$5,520	Q2.S.A	Hartwick College
Neural Synchrony and Plasticity in Children with Autism	\$54,400	Q2.Other	University of North Carolina
Neural mechanisms underlying autism behaviors in SCN1A mutant mice	\$200,000	Q2.S.D	University of Washington
Neural markers of shared gaze during simulated social interactions in ASD	\$99,801	Q2.Other	Yale University
Neural markers of shared gaze during simulated social interactions in ASD	\$416,250	Q2.Other	Yale University
Neural Correlates of Imitation in Children with Autism and their Unaffected Siblings	\$28,600	Q2.L.B	Harvard University
Neural basis of working memory and inhibitory control in ASD Children using NIRS	\$29,976	Q2.Other	GEORGETOWN UNIVERSITY
Neural and cognitive discoordination in autism-related mouse models	\$277,072	Q2.S.D	New York University
Networked Cortical Responses to Movement Associated with ASD	\$372,970	Q2.Other	Duke University
Na ⁺ -H ⁺ Exchanger Mechanisms in Autism Pathophysiology and Treatment	\$29,478	Q2.Other	Brown University
Multisensory processing in autism	\$60,000	Q2.Other	Baylor College of Medicine
Multiscale Genetic Connectivity of Primate Social Circuits	\$735,023	Q2.Other	University of Utah
Multimodal Developmental Neurogenetics of Females with ASD	\$2,738,896	Q2.S.B	Yale University
Mechanical characterization of brain tissue and individual neurons in Autism Spectrum Disorders	\$41,902	Q2.Other	Boston Children's Hospital
Mapping functional neural circuits that mediate social behaviors in autism	\$125,000	Q2.Other	Duke University
Mapping functional connectivity networks in autism spectrum disorder with diffuse optical tomography	\$0	Q2.Other	Washington University in St. Louis
Longitudinal MRI Study of Brain Development in Fragile X	\$773,954	Q2.S.D	Stanford University
Local functional connectivity in the brains of people with autism	\$101,012	Q2.L.B	Massachusetts General Hospital
Local connectivity in altered excitation/inhibition balance states	\$62,500	Q2.Other	Weizmann Institute of Science
Linking genetic mosaicism, neural circuit abnormalities and behavior	\$62,500	Q2.S.D	Brown University

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Linking circuit dynamics and behavior in a rat model of autism	\$196,290	Q2.S.D	University of California, San Francisco
Investigating brain organization and activation in autism at the whole-brain level	\$30,000	Q2.Other	California Institute of Technology
Investigating Brain Connectivity in Autism at the Whole-Brain Level	\$232,967	Q2.Other	Johns Hopkins University
Intrinsic Brain Architecture of Young Children with Autism While Awake and Asleep	\$254,250	Q2.Other	New York University
Integrity and Dynamic Processing Efficiency of Networks in ASD	\$763,675	Q2.Other	SAN DIEGO STATE UNIVERSITY
Imaging markers of brain malformations in people with 16p11.2 alterations	\$60,000	Q2.S.G	New York University
Imaging-based real-time feedback to enhance therapeutic intervention in ASD	\$61,530	Q2.L.B	Stanford University
Imaging adaptive cerebellar processing at cellular resolution in awake mice	\$428,215	Q2.Other	PRINCETON UNIVERSITY
Hippocampal mechanisms of social learning in animal models of autism	\$125,000	Q2.Other	Baylor College of Medicine
Genome-wide Identification of Variants Affecting Early Human Brain Development	\$413,630	Q2.S.G	University of North Carolina
Genetic contribution to language-related preclinical biomarkers of autism	\$0	Q2.S.D	University of Pennsylvania
GABA and Gamma-band Activity: Biomarker for ASD?	\$0	Q2.S.D	University of Pennsylvania
Functional connectivity substrates of social and non-social deficits in ASD	\$698,074	Q2.Other	Massachusetts General Hospital
Functional connectivity in autism spectrum disorders	\$209,375	Q2.Other	Children's Hospital of Philadelphia
Functional Connectivity during Working Memory in Children with ASD: A NIRS Study	\$0	Q2.Other	Georgetown University
Functional and Structural Optical Brain Imaging	\$634,153	Q2.Other	National Institutes of Health
FUNCTIONAL ANATOMY OF FACE PROCESSING IN THE PRIMATE BRAIN	\$1,678,442	Q2.Other	National Institutes of Health
FMRP regulates the pruning of cell-to-cell connections in the neocortex	\$79,500	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
fMRI and EEG approaches to the resting state in ASD	\$240,042	Q2.Other	SAN DIEGO STATE UNIVERSITY
Excitatory/Inhibitory Imbalance in Autism and Early-course Schizophrenia	\$0	Q2.L.B	Connecticut Mental Health Center
Engagement of Social Cognitive Networks during Game Play in Autism	\$29,933	Q2.Other	Duke University
Electrophysiologic biomarkers of language function in autism spectrum disorders	\$0	Q2.L.B	University of California, Los Angeles

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Electrophysiological Signatures of Language Impairment in Autism Spectrum Disord	\$318,332	Q2.Other	Children's Hospital of Philadelphia
EEG-Based Assessment of Functional Connectivity in Autism	\$175,176	Q2.Other	HUGO W. MOSER RESEARCH INSTITUTE KENNEDY KRIEGER
Dysfunction of Sensory Inhibition in Autism	\$202,145	Q2.Other	Johns Hopkins University
Disrupted Network Activity in Neonatal Cortex of Mouse Models of Autism	\$62,500	Q2.S.B	Yale University
Direct Recordings from the Brain in Autism	\$60,000	Q2.S.E	California Institute of Technology
Development of a connectomic functional brain imaging endophenotype of autism	\$27,327	Q2.Other	University of Cambridge
Developmental in Axons underlie Neuropsychiatric Illness	\$30,000	Q2.Other	Children's Research Institute (CRI) Children's National Medical Center
Determining the role of GABA in four animal models of autism	\$0	Q2.Other	Neurochlore
Decoding Neural Systems Underlying Affective Prosody in Children with Autism	\$176,164	Q2.Other	Stanford University
Decoding Affective Prosody and Communication Circuits in Autism	\$138,829	Q2.L.B	Stanford University
Corticothalamic circuit interactions in autism	\$100,000	Q2.Other	Boston Children's Hospital
Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism	\$124,496	Q2.S.D	New York University
Controlling Interareal Gamma Coherence by Optogenetics, Pharmacology and Behavior	\$250,152	Q2.Other	PRINCETON UNIVERSITY
Cognitive Control of Emotion in Autism	\$101,348	Q2.Other	University of Pittsburgh
CLARITY: circuit-dynamics and connectivity of autism-related behavior	\$124,148	Q2.Other	Stanford University
Characterizing mechanistic heterogeneity across ADHD and Autism	\$140,305	Q2.Other	Oregon Health & Science University
Characterizing and Manipulating the Social Reward Dysfunction in a Novel Mouse Model for Autism	\$35,000	Q2.Other	Massachusetts Institute of Technology
Cell adhesion molecules in autism: a whole-brain study of genetic mouse models	\$47,900	Q2.Other	COLD SPRING HARBOR LABORATORY
Cell adhesion molecules in autism: a whole-brain study of genetic mouse models	\$467,000	Q2.Other	COLD SPRING HARBOR LABORATORY
CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments	\$0	Q2.Other	Cornell University
Brain Systems Supporting Learning and Memory in Children with Autism	\$172,797	Q2.Other	Stanford University
Brain Network Development in Normal and Autistic Children	\$187,164	Q2.Other	University of Utah

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BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS	\$0	Q2.Other	University of Maryland
Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	\$0	Q2.Other	Hospital Riviere-des-Praires, University of Montreal, Canada
Brain Bases of Language Deficits in SLI and ASD	\$614,180	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Behavioral, fMRI, and Anatomical MRI Investigations of Attention in Autism	\$53,282	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
An fMRI investigation of propagated intrinsic activity in early development and autism	\$28,934	Q2.Other	Washington University in St. Louis
Amygdala circuitry of impaired social-emotional behavior in autism	\$0	Q2.Other	Rosalind Franklin University of Medicine and Science
Altered sensorimotor processing in a mouse model of autism	\$0	Q2.Other	Louisiana State University School of Veterinary Medicine
Alterations in brain-wide neuroanatomy in autism mouse models	\$300,000	Q2.Other	Cold Spring Harbor Laboratory

